



To All Lamborghini Dealers and Licensed Service Point .
From Customer Service Department.
Subject Engine And Gearbox Software Upgrade.
Group 10.02.00
Date 01/06/12
Pages 45

Subject

Engine and gearbox software upgrade.

Model

Lamborghini Aventador LP-700 My 2012 from Vin CLA00091 to CLA00932

Warning: some vehicles included in this VIN range may not be affected, so check carefully on the Lamborghini WEB Portal (at the section named VIN Info) if the cars in your workshop or in your eventual stock are effectively affected before performing any other operation.

Information to the field

As a continuous product monitoring, Automobili Lamborghini Spa has found that sporadically on some vehicles during the ~~cold~~-engine start-up the cam phase variators might sound noisy.

Field solution

Upgrade the engine and related gearbox software.

Warranty Claim data

The warranty reimbursement request for this rework action will be managed by the following standard Warranty Claim procedures.

Campaign Code:	L834-A.03.12
Campaign Description:	Engine And Gearbox SW Upgrade
Cost Code:	50
Component Code:	CCA0312
Trouble Code:	220
Labour Code:	CCA0312100
Labour Time:	1 h

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Fill out the Service and Recall Campaign section in the warranty booklet, which is shown in the figure below.

Automobili Lamborghini S.p.A.		LAMBORGHINI	
Campagne service assistenza e campagne di richiamo / Service- und Rückrufaktion / Service and Recall Campaign Service et campagne de rappel / Campaña de Servicio y Llamada a Taller			
Service/Service Servizio/Servicio	☐	Richiamo/Rückruf Recall/Rappel Llamada a Taller	☐
Numero/Number Número/Numero			
Data/Datum/Date/Date/Fecha			
Data riparazione/Reparaturdatum Repair Data/Date de réparation Fecha reparación			
Eseguito dal Concessionario / Ausgeführt von der Vertragwerkstatt / Done by the Dealer Effectué par le concessionnaire / Efectuado por el Concesionario			
Firma / Unterschrift / Signature / Signature / Firma			
Service/Service Servizio/Servicio	☐	Richiamo/Rückruf Recall/Rappel Llamada a Taller	☐
Numero/Number Número/Numero			
Data/Datum/Date/Date/Fecha			
Data riparazione/Reparaturdatum Repair Data/Date de réparation Fecha reparación			
Eseguito dal Concessionario / Ausgeführt von der Vertragwerkstatt / Done by the Dealer Effectué par le concessionnaire / Efectuado por el Concesionario			

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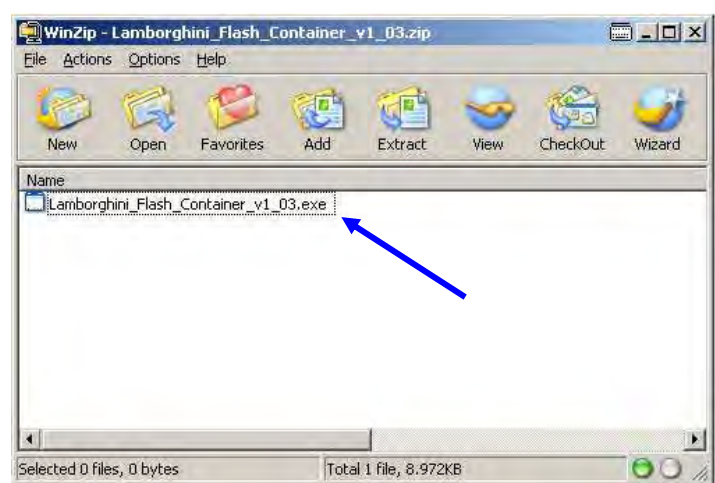


Workshop instructions

NOTE: the instructions contained in this bulletin are based on version 19.52 of VAS-PC Lamborghini MY12 (see information bulletin BI.05.12).

Preliminary operations:

Lamborghini Flash Container version1.03 download and installation procedure

1	Connect your Lamborghini Diagnosis Tester to internet and log on the Lamborghini web portal.
2	Open the section Customer Service/Downloads/Diagnosis SW 2012
3	Download the file “Lamborghini_flash_container_v1_03.zip”
4	Double click on the just downloaded zip file and then open the file Lamborghini_Flash_Container_v1_03.exe, as shown in the picture beside. 

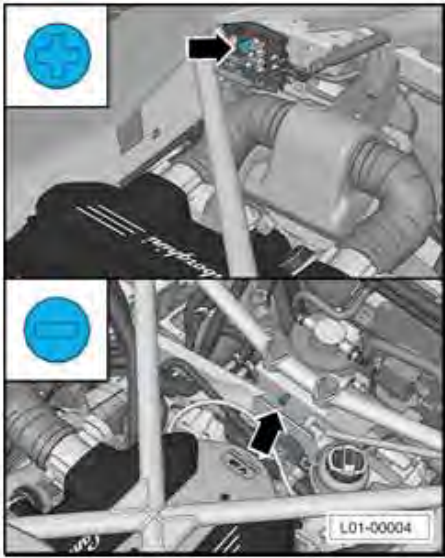
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5	Click on “Install” and wait that the installation is completed.	
6	Click on “Finish” to exit.	

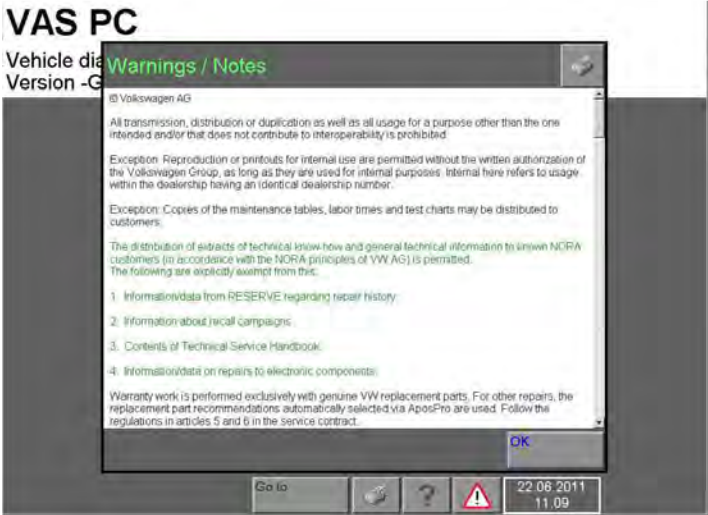
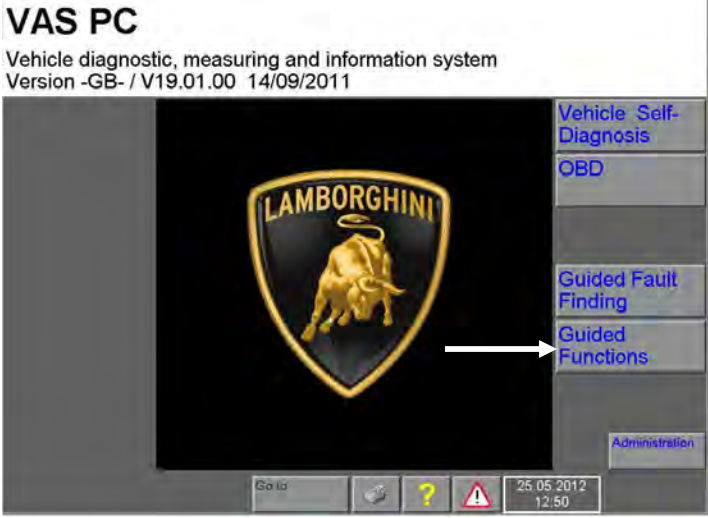
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Update procedure:

1	Please connect a battery charger to the recharge points available in the engine bonnet, as shown in the picture beside.	
2	Please connect the VAS5054 interface to the vehicle's OBD plug and to the diagnostic laptop. Turn the ignition ON	

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3	Start the VAS-PC double clicking on the related icon on the desktop	
4	Click on “OK” to hide the general information window	
5	Select “Guided Functions”	

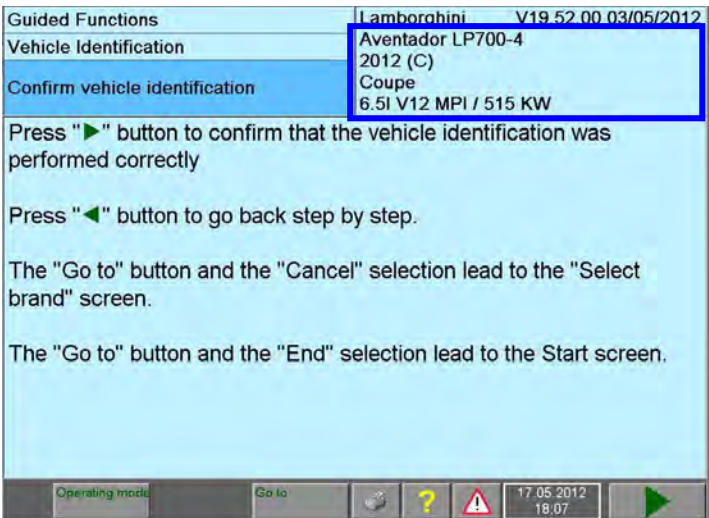
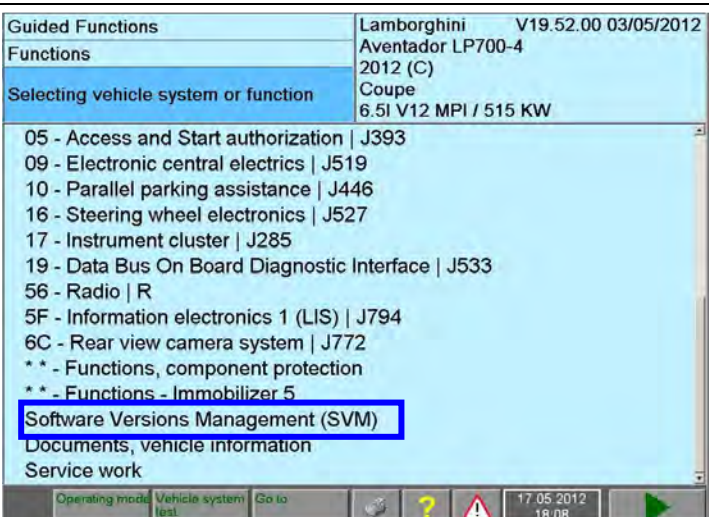
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6	Click on "OK"	The screenshot shows the 'Vehicle Identification' screen with a 'Note' dialog box. The note reads: 'To establish communication with the vehicle a bluetooth connection to a suitable remote diagnosis head is required. Please ensure the connection has been established.' The 'OK' button is at the bottom right of the note. The background screen shows 'Select brand' with 'Lamborghini' selected. The status bar at the bottom shows '25.05.2012 12:50'.
7	Click on "Lamborghini"	The screenshot shows the 'Vehicle Identification' screen with 'Lamborghini' selected under 'Select brand'. The status bar at the bottom shows '17.05.2012 18:04'.

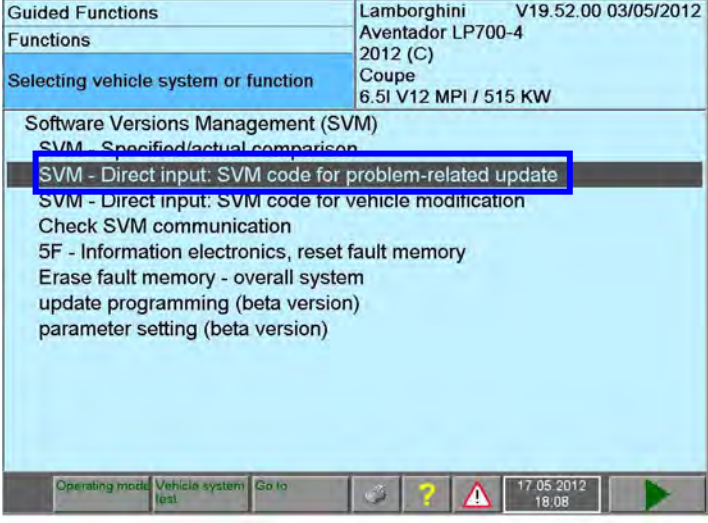
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8	Confirm the vehicle identification data shown on the upper right clicking on 	
9	Scroll down the ECU list and select “Software Version Management”	

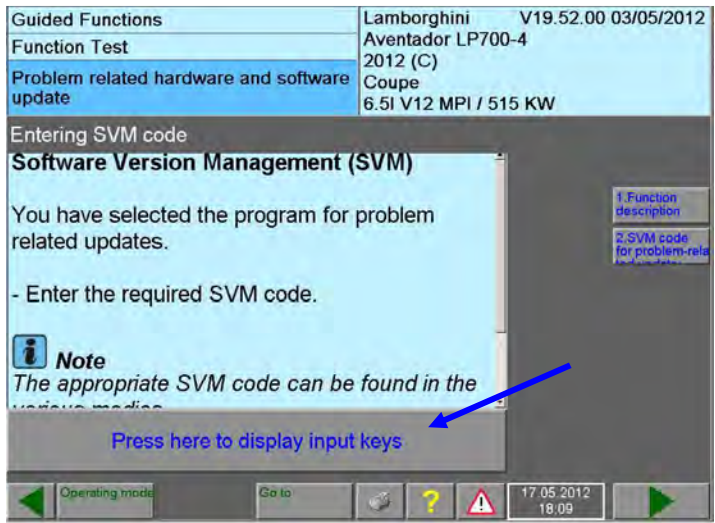
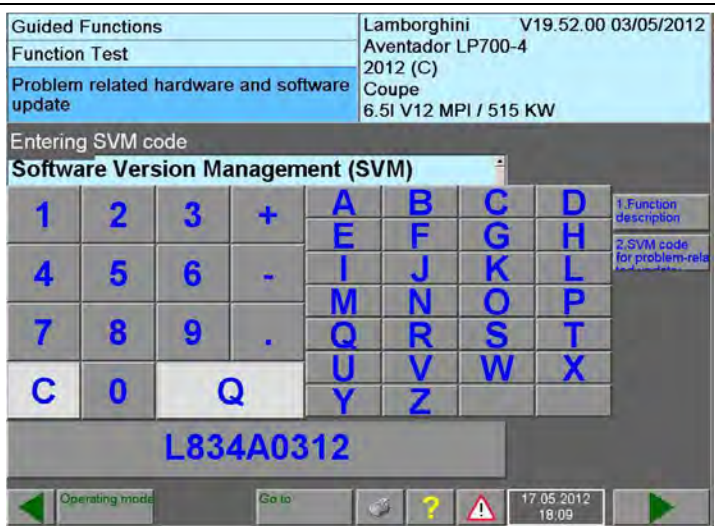
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10	Select “SVM – Direct input: SVM code for problem related update” and click on  to add the program into the test plan.	 The screenshot shows the 'Guided Functions' menu with 'SVM - Direct input: SVM code for problem-related update' selected. The vehicle information at the top right indicates a Lamborghini Aventador LP700-4, 2012 (C), Coupe, 6.5l V12 MPI / 515 KW. The bottom status bar shows the date 17.05.2012 and time 18.08.
11	Run the program clicking on 	 The screenshot shows the 'Test Plan' menu with 'SVM - Direct input: SVM code for problem-related update' selected. The vehicle information at the top right is the same as in the previous screenshot. The bottom status bar shows the date 25.05.2012 and time 15.11.

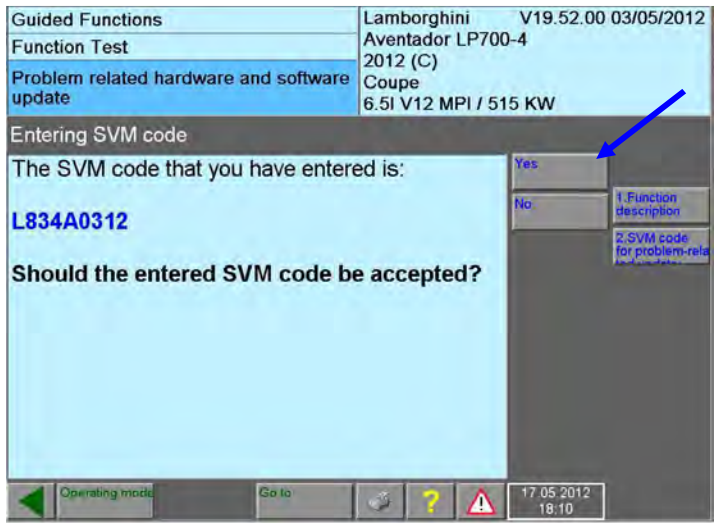
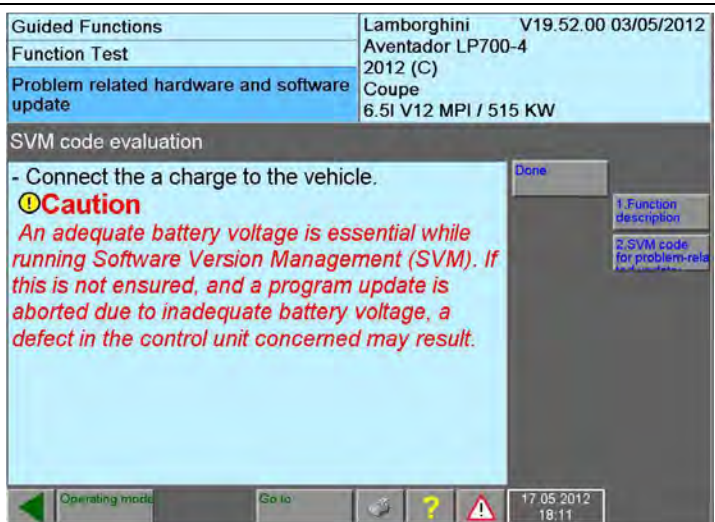
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12	Click on the grey bar to enter the SVM code	
13	Enter the code L834A0312 then click on  to confirm	

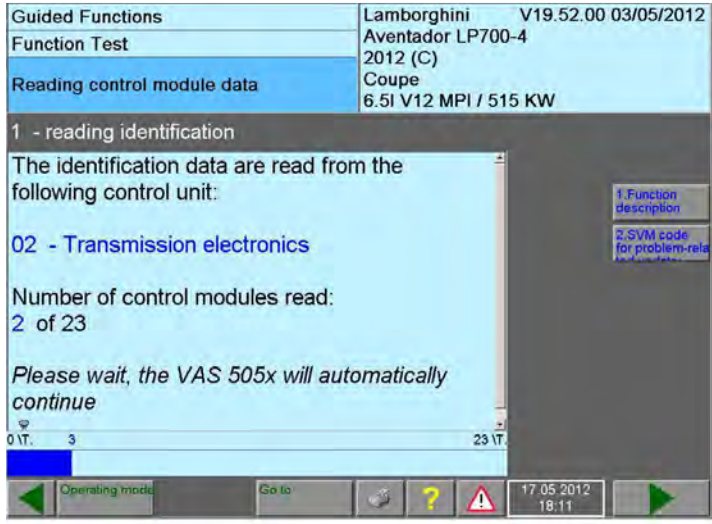
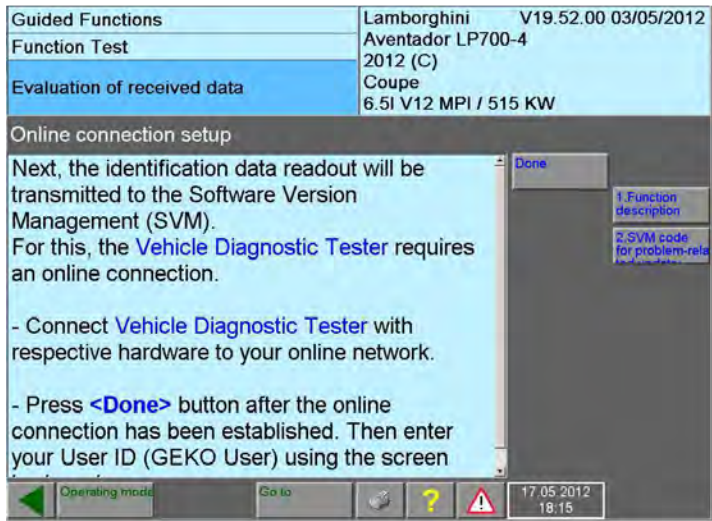
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14	Confirm that the inserted code is correct clicking on “Yes”	 Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Problem related hardware and software update 2012 (C) Coupe 6.5l V12 MPI / 515 KW Entering SVM code The SVM code that you have entered is: L834A0312 Should the entered SVM code be accepted? Yes No 1. Function description 2. SVM code for problem-related update Operating mode Go to ? 17.05.2012 18:10
15	Click on “Done” to start the data acquisition from all the vehicle’s ECUs	 Guided Functions Lamborghini V19.52.00 03/05/2012 Function Test Aventador LP700-4 Problem related hardware and software update 2012 (C) Coupe 6.5l V12 MPI / 515 KW SVM code evaluation - Connect the a charge to the vehicle. ⚠ Caution <i>An adequate battery voltage is essential while running Software Version Management (SVM). If this is not ensured, and a program update is aborted due to inadequate battery voltage, a defect in the control unit concerned may result.</i> Done 1. Function description 2. SVM code for problem-related update Operating mode Go to ? 17.05.2012 18:11

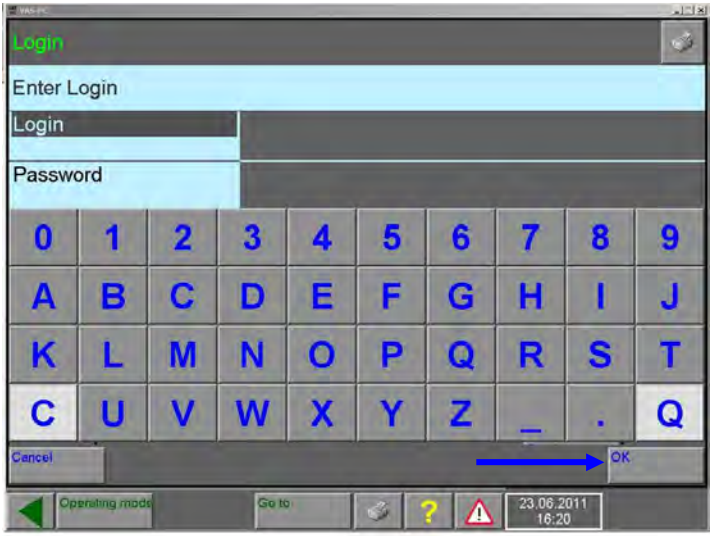
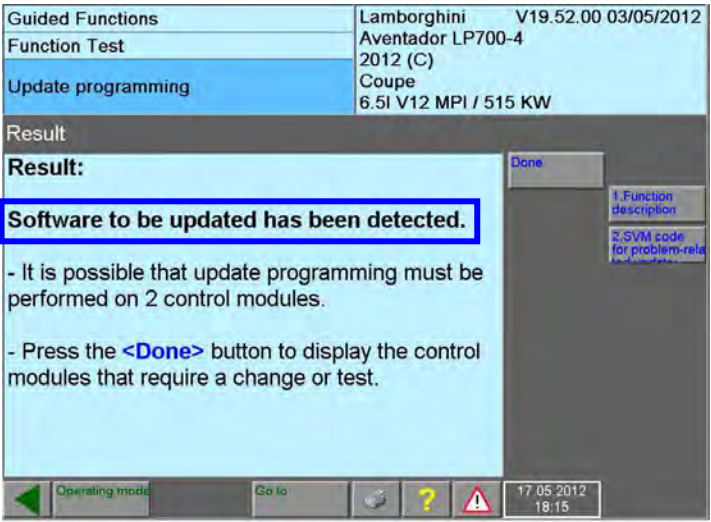
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16	Wait until the data acquisition from all control modules is completed.	 The screenshot shows the 'Reading control module data' step of a guided function. The vehicle information is: Lamborghini V19.52.00 03/05/2012, Aventador LP700-4 2012 (C), Coupe, 6.5l V12 MPI / 515 KW. The current step is '1 - reading identification'. A message states: 'The identification data are read from the following control unit: 02 - Transmission electronics'. It also shows 'Number of control modules read: 2 of 23' and a prompt 'Please wait, the VAS 505x will automatically continue'. The bottom status bar shows '17.05.2012 18:11'.
17	For the online authentication a valid GeKo account is necessary. <u>Be sure that your internet connection is working properly.</u> Click on "Done" to access the Login window	 The screenshot shows the 'Evaluation of received data' step. A message states: 'Next, the identification data readout will be transmitted to the Software Version Management (SVM). For this, the Vehicle Diagnostic Tester requires an online connection.' It lists instructions: '- Connect Vehicle Diagnostic Tester with respective hardware to your online network.' and '- Press <Done> button after the online connection has been established. Then enter your User ID (GEKO User) using the screen'. A 'Done' button is visible in the top right. The bottom status bar shows '17.05.2012 18:15'.

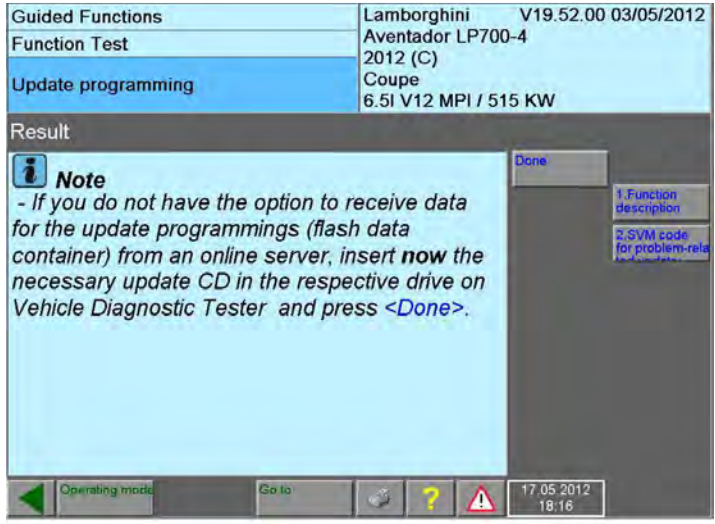
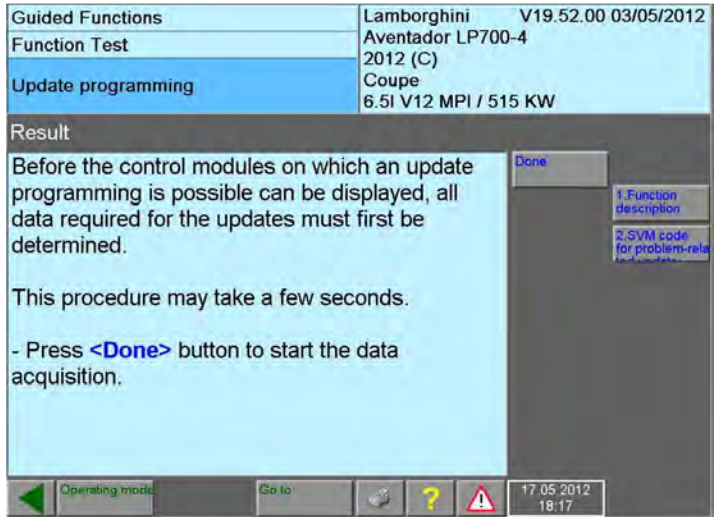
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18	Insert your GeKo user name in the field “Login” and the pin 1324 + current 6 digit code displayed on your GeKo token in the field Password. Then confirm clicking on OK	
19	The communication is then established with the central server. At the end of communication you will receive the feedback as in the picture beside. Click on “Done”	

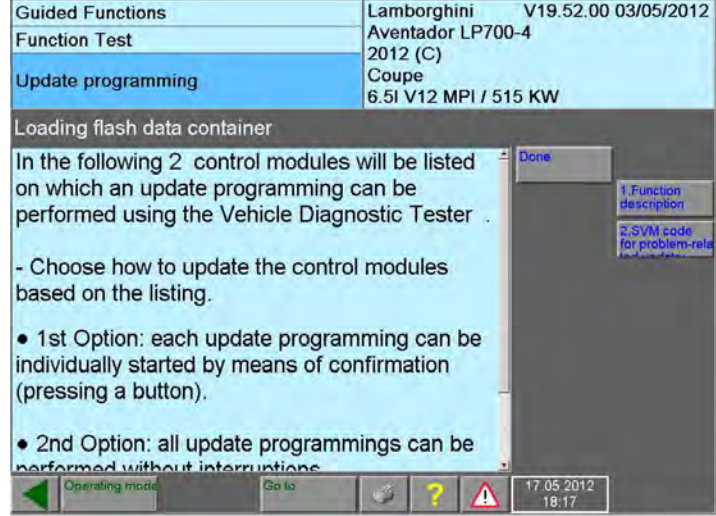
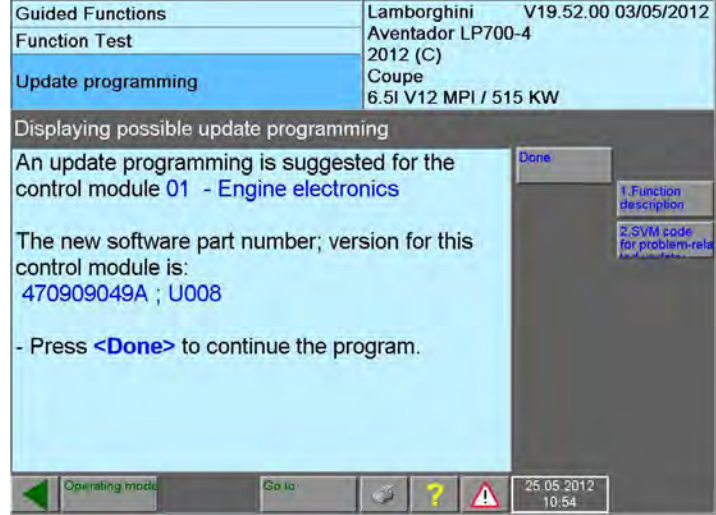
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20	The flash data containers are already saved on the diagnostic laptop. Press “Done”	
21	Press “Done” to download the necessary data about the flash containers.	

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22	Click on “Done”	
23	Depending on the market and according to car's equipment, new engine software part number and version will be 470909049A; U008 or 470909049; V008 or 470909049B; Z008 Click on “Done”	

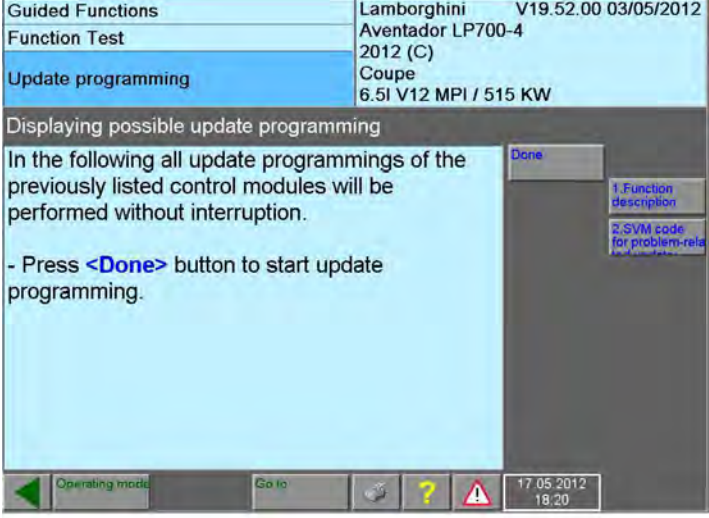
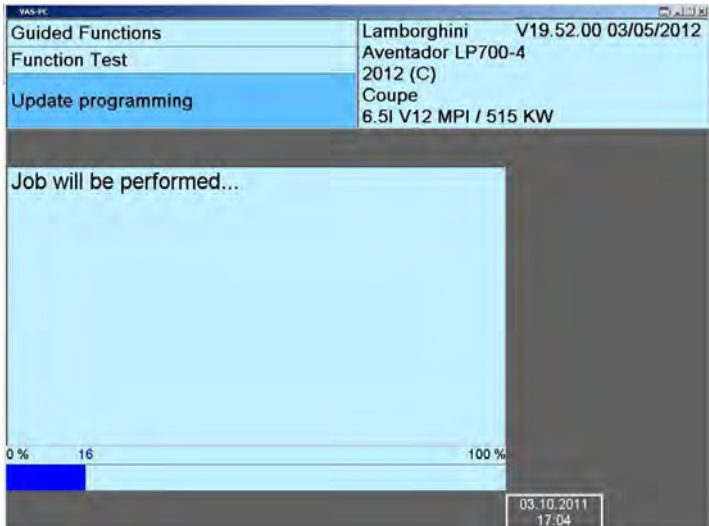
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24	The new gearbox software part number and version will be 470927156; 0903 Press “Done” to continue.	
25	Select the option no.2 “Perform update programming on all control modules without interruption”	

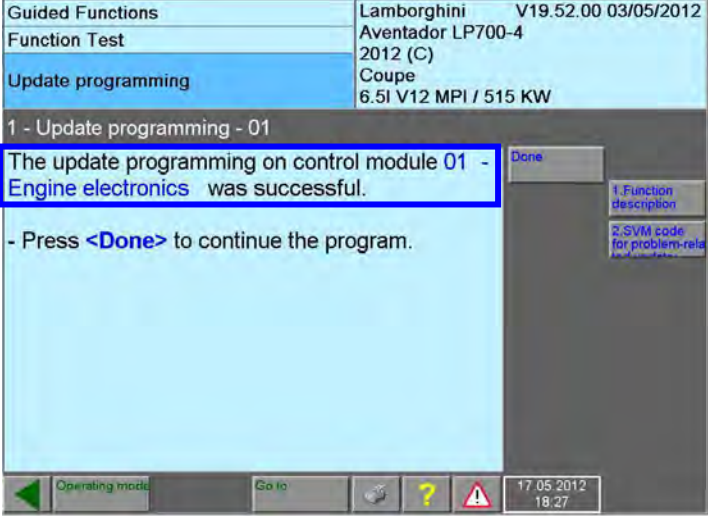
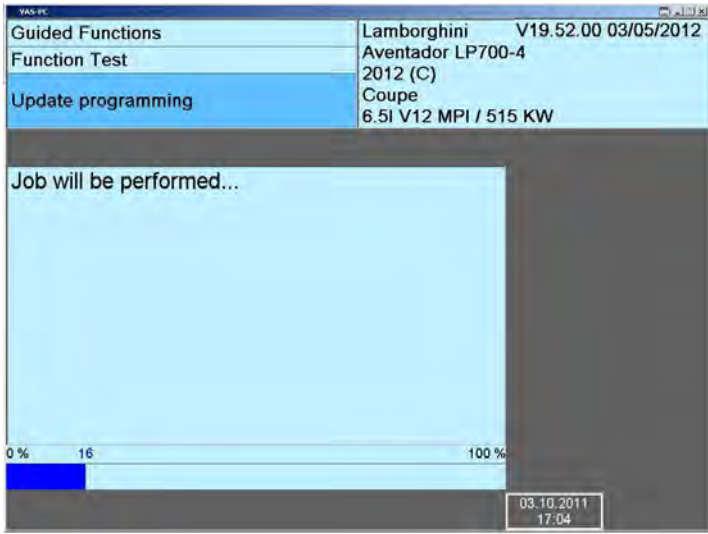
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26	Click on “Done” to start the flash update for both ECUs	
27	Wait until the update programming of the engine ECU is completed	

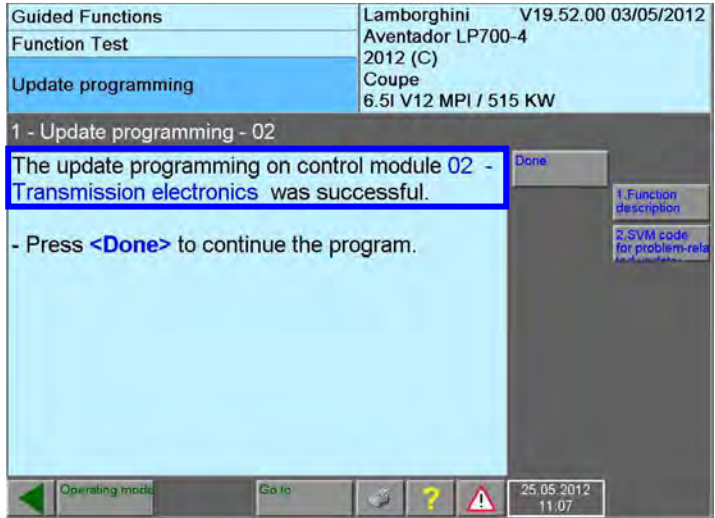
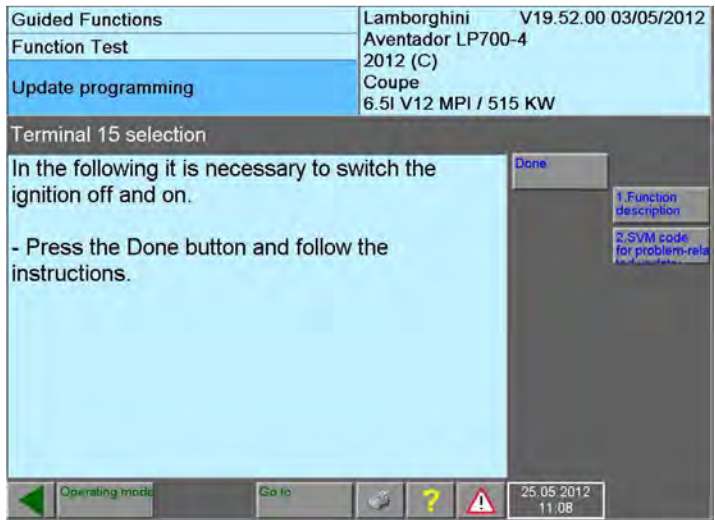
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28	Once the update programming has been completed successfully a feedback as in the picture beside is displayed. Press “Done” to start the update programming of the gearbox ECU. If the update programming has not been completed or has been unsuccessful: - turn the ignition OFF - wait 1 minute before turning the ignition ON again - if offered by the program: select “Repeat” to retry the update programming, otherwise repeat the procedure from step 11	
29	Wait until the update programming of the gearbox ECU is completed.	

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30	Once the update programming has been completed successfully a feedback as in the picture beside is displayed. Press “Done” to continue. If the update programming has not been completed or has been unsuccessful: - turn the ignition OFF - wait 1 minute before turning the ignition ON again - if offered by the program: select “Repeat” to retry the update programming, otherwise repeat the procedure from step 12	 The screenshot shows the 'Update programming' screen for a Lamborghini Aventador LP700-4. The status bar at the top indicates 'Lamborghini V19.52.00 03/05/2012'. The main display area shows '1 - Update programming - 02' and a message: 'The update programming on control module 02 - Transmission electronics was successful.' A 'Done' button is visible in the top right corner. The bottom status bar shows '25.05.2012 11.07'.
31	In the following an ignition OFF – ON cycle is necessary to restart both the ECU. Press “Done” to continue.	 The screenshot shows the 'Terminal 15 selection' screen. The status bar at the top indicates 'Lamborghini V19.52.00 03/05/2012'. The main display area shows 'Terminal 15 selection' and instructions: 'In the following it is necessary to switch the ignition off and on.' and '- Press the Done button and follow the instructions.' A 'Done' button is visible in the top right corner. The bottom status bar shows '25.05.2012 11.08'.

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32	Switch the ignition OFF.	
33	<u>Wait 1 minute before switching the ignition back ON again.</u> Then press on	

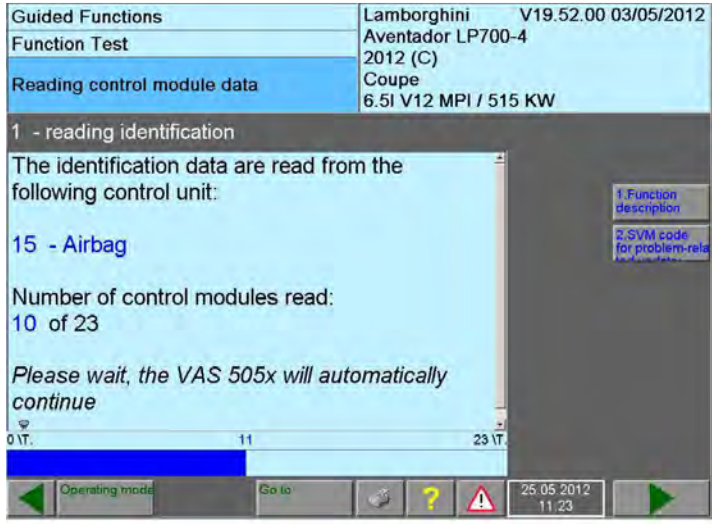
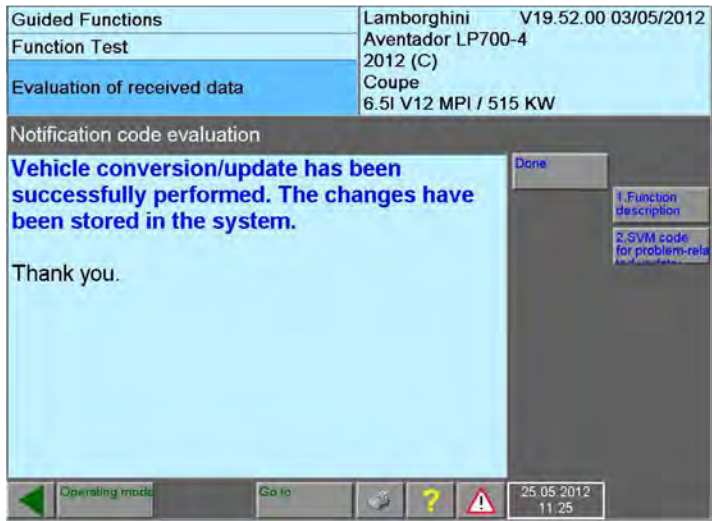
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34	Press "Done"	
35	Press "Done" to start the data report	

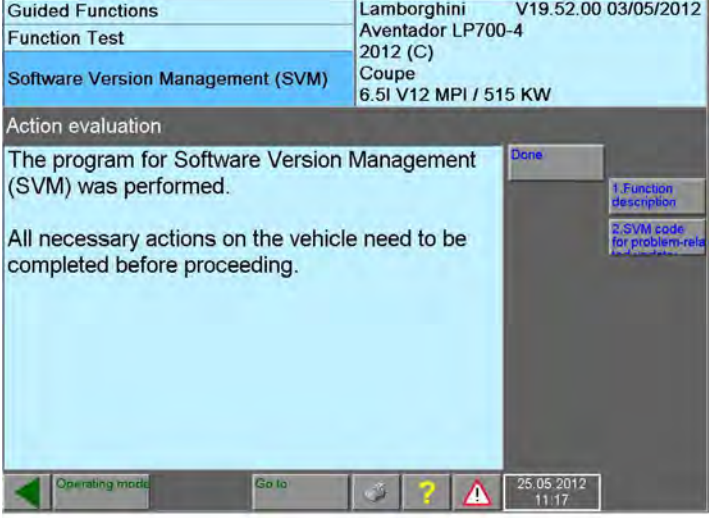
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36	Wait until the data acquisition from all the control modules is completed	
37	Once the data report has been sent to the servers a feedback as in the picture beside is displayed. The software update of engine and gearbox ECU has been completed successfully and all the information have been stored in the system. Press on “Done”	

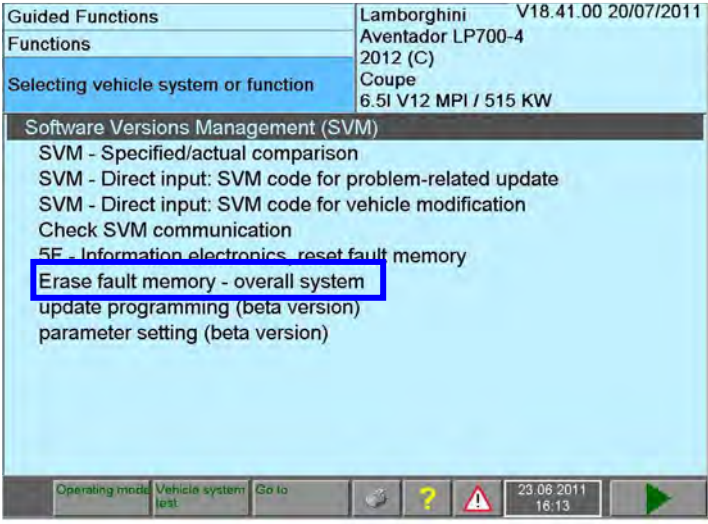
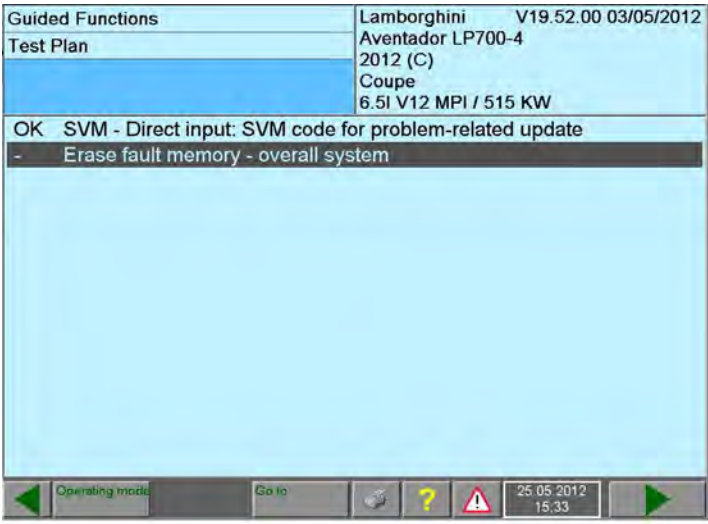
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38	Press on “Done” to exit the program	
39	Go back to the Software Version Management menu clicking on 	

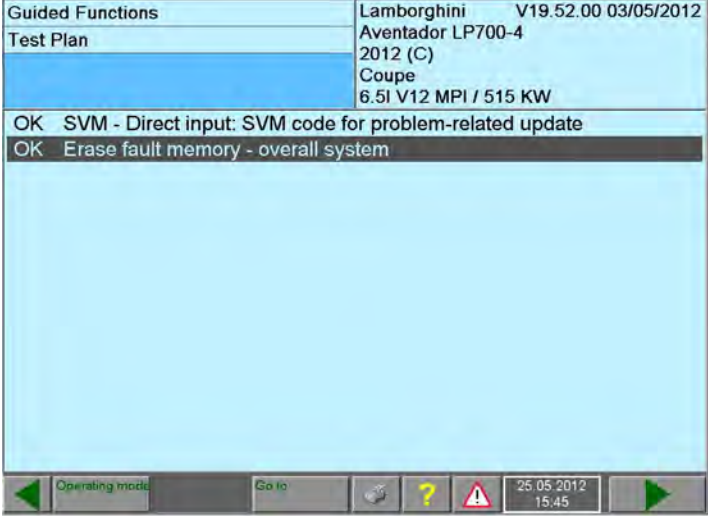
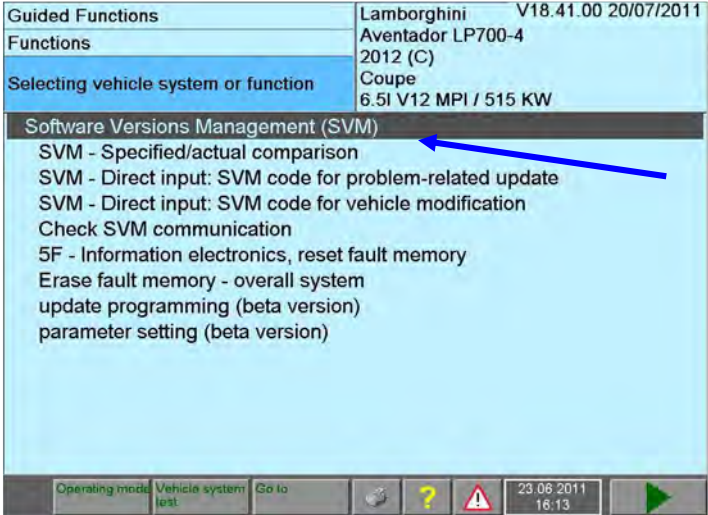
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40	Select and run the program “Erase fault memory – overall systems” to clear all the faults stored because of the software update.	 The screenshot shows the 'Software Versions Management (SVM)' menu. The option 'Erase fault memory - overall system' is highlighted with a blue box. Other options include 'SVM - Specified/actual comparison', 'SVM - Direct input: SVM code for problem-related update', 'SVM - Direct input: SVM code for vehicle modification', 'Check SVM communication', '5F - Information electronics: reset fault memory', 'update programming (beta version)', and 'parameter setting (beta version)'. The top right corner displays 'Lamborghini V18.41.00 20/07/2011', 'Aventador LP700-4', '2012 (C)', 'Coupe', and '6.5l V12 MPI / 515 KW'. The bottom status bar shows 'Operating mode: test', 'Vehicle system', 'Go to', a question mark icon, a warning icon, the date '23.08.2011', the time '16:13', and a green arrow icon.
41	Execute the program “Erase fault memory – overall system” clicking on .	 The screenshot shows the 'Test Plan' screen. The option 'Erase fault memory - overall system' is selected under the 'OK' button. The top right corner displays 'Lamborghini V19.52.00 03/05/2012', 'Aventador LP700-4', '2012 (C)', 'Coupe', and '6.5l V12 MPI / 515 KW'. The bottom status bar shows 'Operating mode', 'Go to', a question mark icon, a warning icon, the date '25.05.2012', the time '15:33', and a green arrow icon.

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42	Go back to the “Software Version Management” menu clicking on 	
43	Click on “Software Version Management” in order to go back to the ECUs list.	

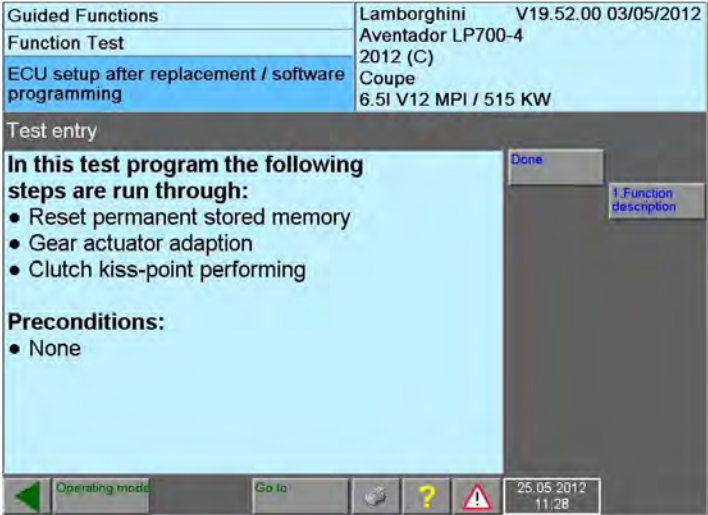
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44	Select "02 – Gearbox electronics"	The screenshot shows the 'Selecting vehicle system or function' screen. A blue arrow points to the option '02 - Gearbox electronics J217'. The vehicle information at the top right reads: Lamborghini V19.52.00 03/05/2012, Aventador LP700-4 2012 (C), Coupe, 6.5l V12 MPI / 515 KW. The bottom status bar shows 'Operating mode: Vehicle system test', a date of '25.05.2012', and a time of '11:27'.
45	Select the function "02 – ECU setup after replacement / software programming" in order to initialize the gearbox ECU.	The screenshot shows the 'Selecting vehicle system or function' screen with the list expanded under '02 - Gearbox electronics J217'. The option '02 - ECU setup after replacement / software programming' is highlighted at the bottom of the list. The vehicle information and status bar are identical to the previous screenshot.

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46	Execute the program clicking on 	
47	Click on “Done”	

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48	Click on "Done"	
49	Select "NO"	

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50	Click on "Done"	
51	Click on "Done"	

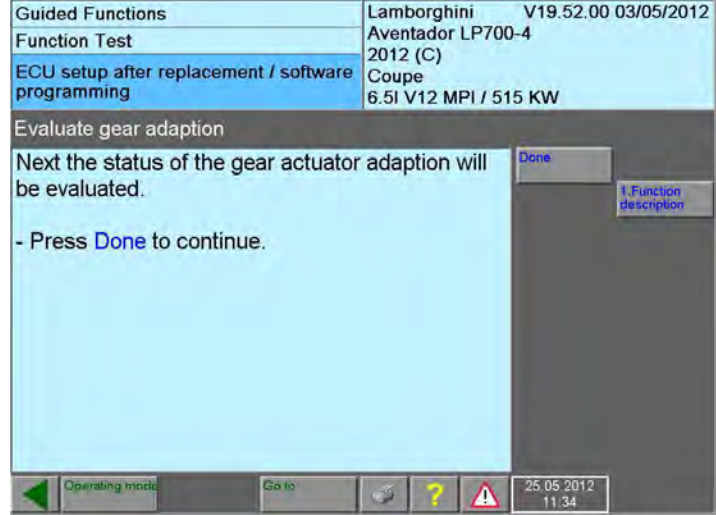
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52	Click on “Done” in order to execute the gear adaption.	
53	Confirm clicking on “Yes”	

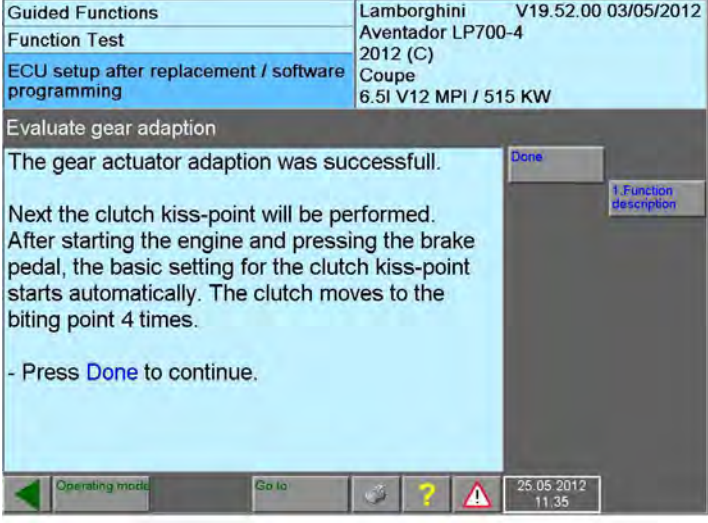
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54	Wait until the gear adaption procedure is completed. Gear engagements can be checked directly from the instrument cluster.	
55	Click on “Done” to continue.	

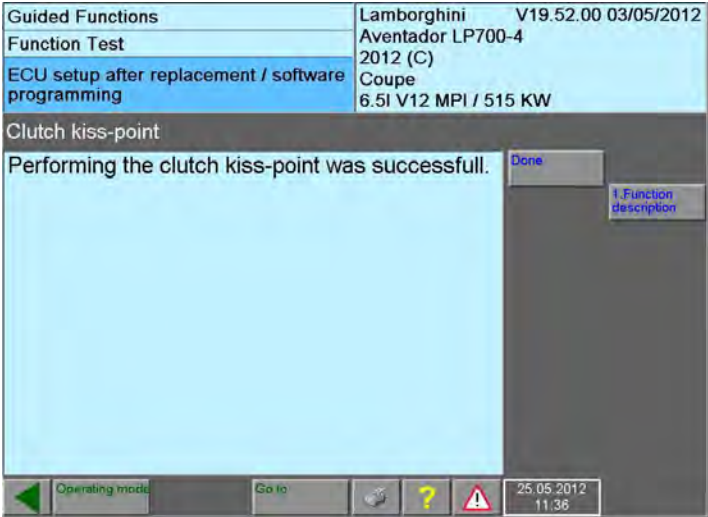
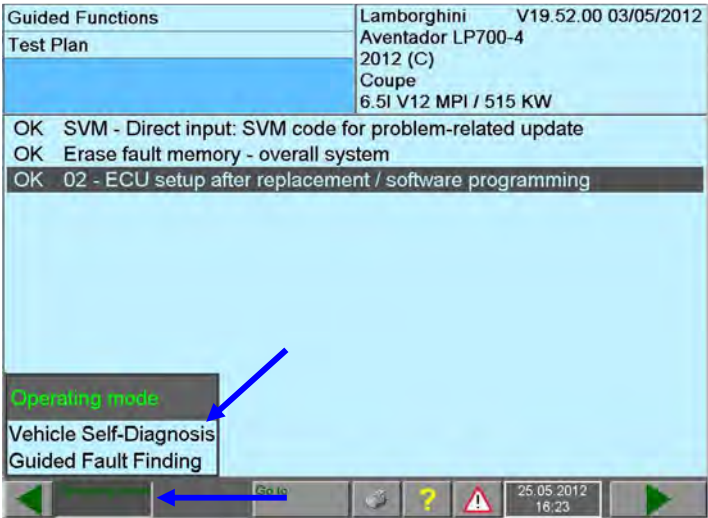
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56	Click on “Done” in order to perform the Kiss Point adaption.	
57	<u>Start the engine at idle and keep pressed the brake pedal for at least 1 minute.</u> If the engine doesn't start: • turn the ignition OFF • disconnect the diagnostic interface • wait at least 1 minute before turn the ignition ON again • reconnect the diagnostic interface and repeat the program from step 46	

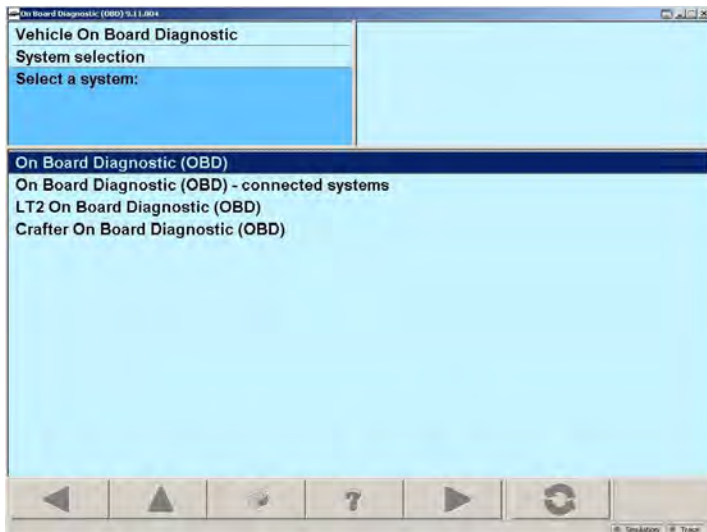
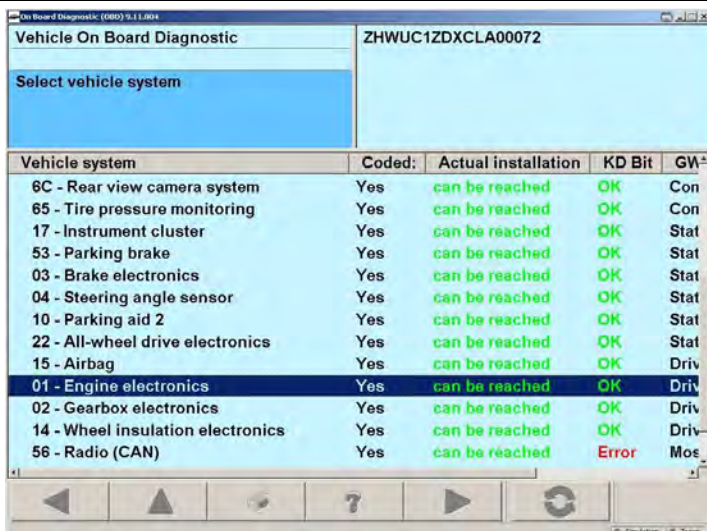
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58	If the Kiss Point adaption is completed successfully the screenshot beside will be displayed. Click on “Done” in order to exit from the program. If the Kiss Point adaption is not completed successfully: • turn the ignition OFF • disconnect the diagnostic interface • wait at least 1 minute before turn the ignition ON again • reconnect the diagnostic interface and repeat the program from step 46	
59	Select “Operating Mode” and then click on “Vehicle Self-Diagnosis”	

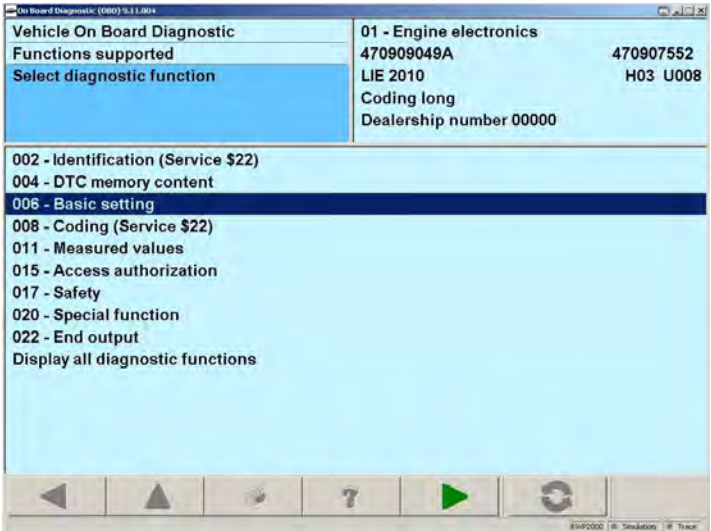
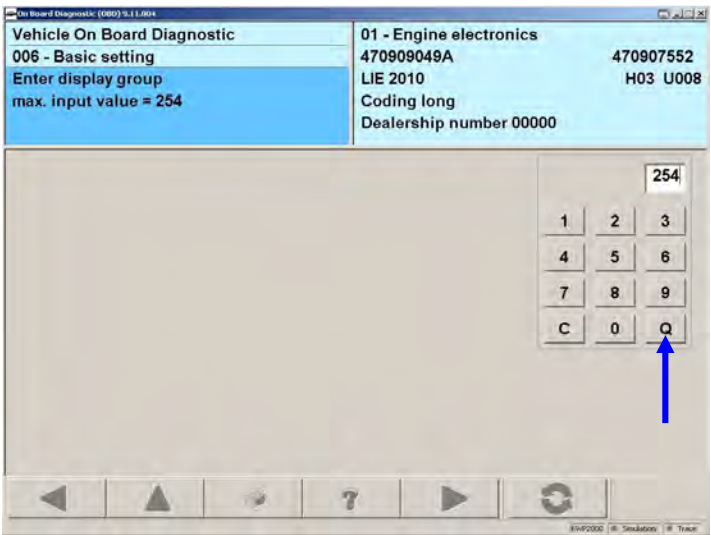
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60	Select “On Board Diagnostic (OBD)” and then click on 																																																																							
61	Scroll down the ECU list, select “01 – Engine electronics” and then confirm clicking on 	 <table><thead><tr><th>Vehicle system</th><th>Coded:</th><th>Actual installation</th><th>KD Bit</th><th>GW</th></tr></thead><tbody><tr><td>6C - Rear view camera system</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Con</td></tr><tr><td>65 - Tire pressure monitoring</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Con</td></tr><tr><td>17 - Instrument cluster</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Stat</td></tr><tr><td>53 - Parking brake</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Stat</td></tr><tr><td>03 - Brake electronics</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Stat</td></tr><tr><td>04 - Steering angle sensor</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Stat</td></tr><tr><td>10 - Parking aid 2</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Stat</td></tr><tr><td>22 - All-wheel drive electronics</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Stat</td></tr><tr><td>15 - Airbag</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Driv</td></tr><tr><td>01 - Engine electronics</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Driv</td></tr><tr><td>02 - Gearbox electronics</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Driv</td></tr><tr><td>14 - Wheel insulation electronics</td><td>Yes</td><td>can be reached</td><td>OK</td><td>Driv</td></tr><tr><td>56 - Radio (CAN)</td><td>Yes</td><td>can be reached</td><td>Error</td><td>Mos</td></tr></tbody></table>	Vehicle system	Coded:	Actual installation	KD Bit	GW	6C - Rear view camera system	Yes	can be reached	OK	Con	65 - Tire pressure monitoring	Yes	can be reached	OK	Con	17 - Instrument cluster	Yes	can be reached	OK	Stat	53 - Parking brake	Yes	can be reached	OK	Stat	03 - Brake electronics	Yes	can be reached	OK	Stat	04 - Steering angle sensor	Yes	can be reached	OK	Stat	10 - Parking aid 2	Yes	can be reached	OK	Stat	22 - All-wheel drive electronics	Yes	can be reached	OK	Stat	15 - Airbag	Yes	can be reached	OK	Driv	01 - Engine electronics	Yes	can be reached	OK	Driv	02 - Gearbox electronics	Yes	can be reached	OK	Driv	14 - Wheel insulation electronics	Yes	can be reached	OK	Driv	56 - Radio (CAN)	Yes	can be reached	Error	Mos
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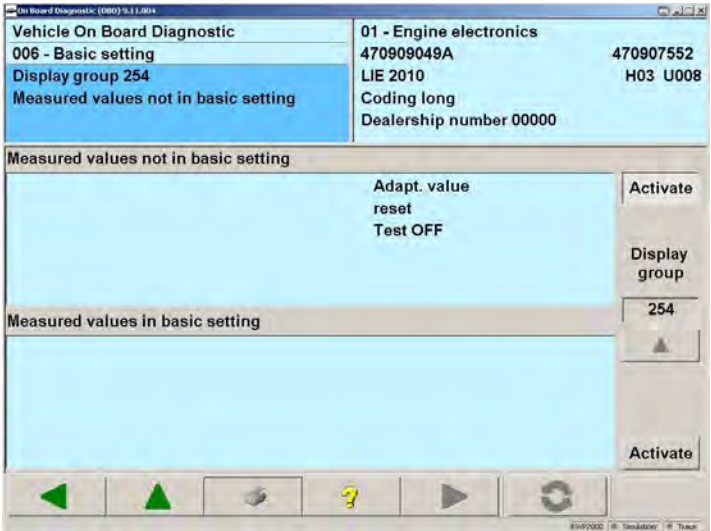
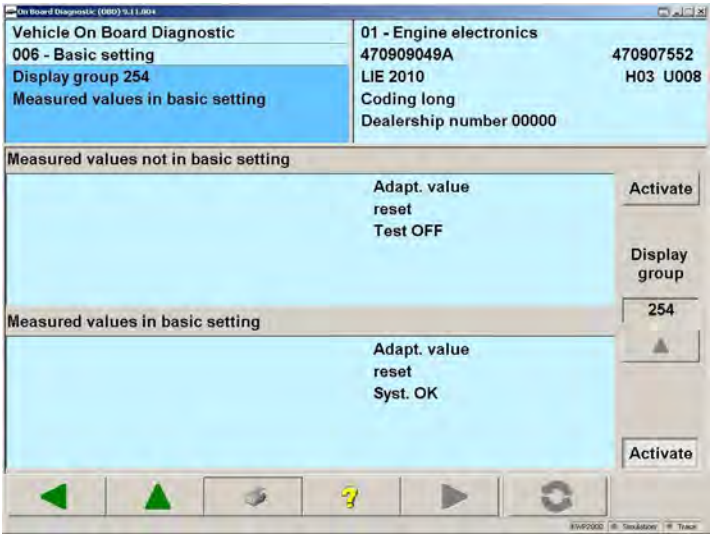
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62	Select “Basic Settings” and then confirm clicking on 	
63	Insert the value 254 and then confirm clicking on “Q”	

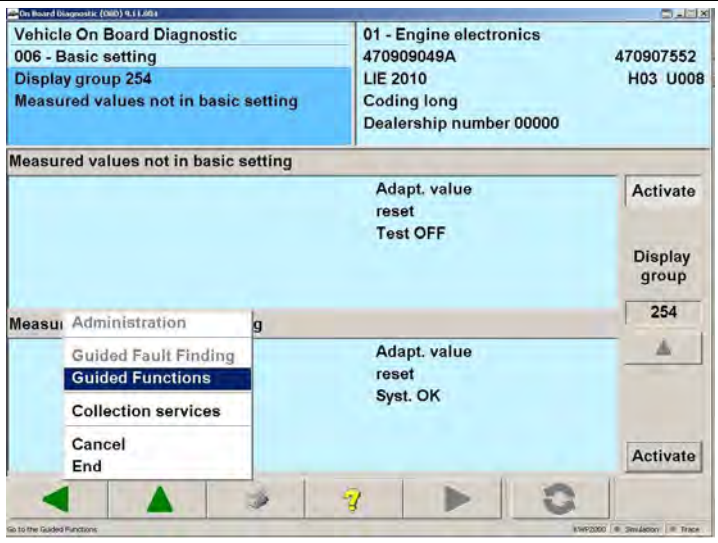
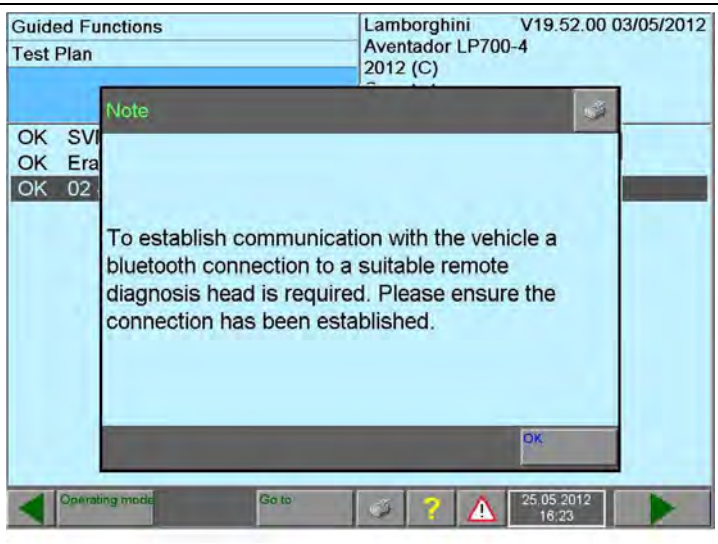
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64	Click on “Activate” on bottom right in order to start the reset for auto adaptation values.	
65	Wait until the feedback message is shown. If the procedure has been performed successfully the message Syst.OK will appear, as shown in the picture beside. If the procedure has not been performed successfully: • turn the ignition OFF • wait at least 1 minute before turn the ignition ON again • repeat the program from step 61	

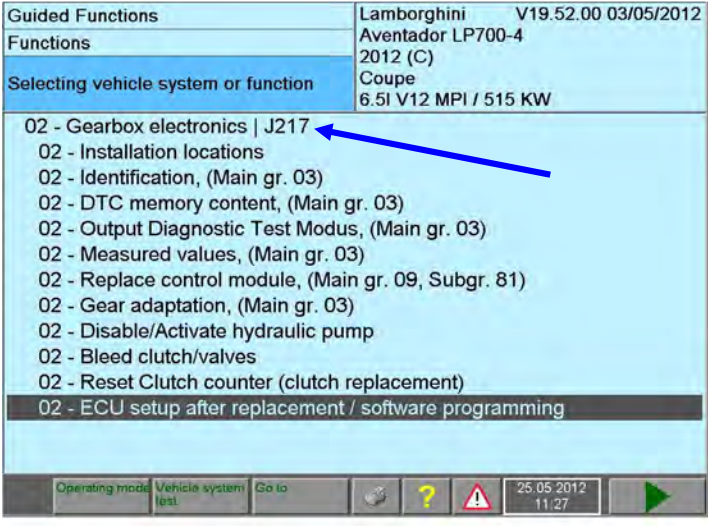
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66	Go back to the test plan clicking on the button  and then selecting “Guided Functions”	
67	Click on “OK”	

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68	Go back to functions menu clicking on 	
69	Go back to the ECUs list clicking on “02 – Gearbox electronics”	

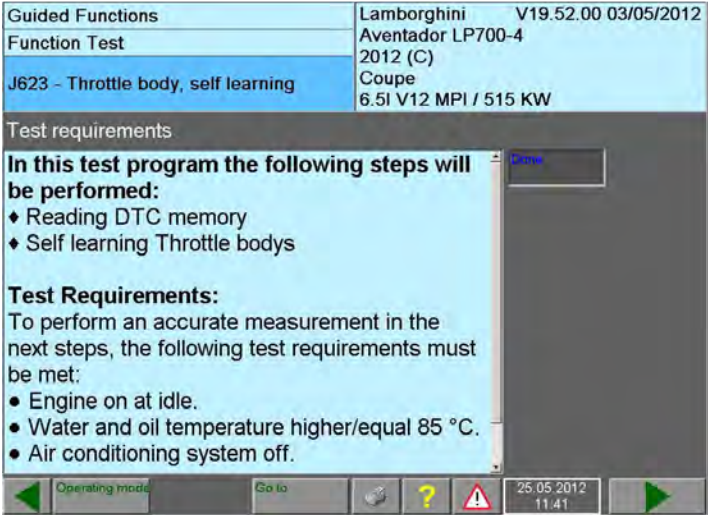
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70	Select "01 – Engine electronics"	Guided Functions Functions Selecting vehicle system or function Lamborghini V19.52.00 03/05/2012 Aventador LP700-4 2012 (C) Coupe 6.5l V12 MPI / 515 KW 01 - Engine electronics J623 02 - Gearbox electronics J217 22 - All-wheel drive electronics J492 03 - Brake electronics J104 53 - Parking brake J540 65 - Tire pressure monitoring J502 14 - Wheel damping electronics J197 6B - Aerodynamic control unit J920 15 - Airbag J234 42 - Driver door electronics J386 46 - Central module comfort system J393 52 - Passenger door electronics J387 08 - A/C-/heater electronics J255 05 - Access and Start authorization J393 Operating mode Vehicle system test Go to
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72	Execute the program clicking on 	
73	Be sure that Air Conditioning is OFF Cliccare su “Done”	

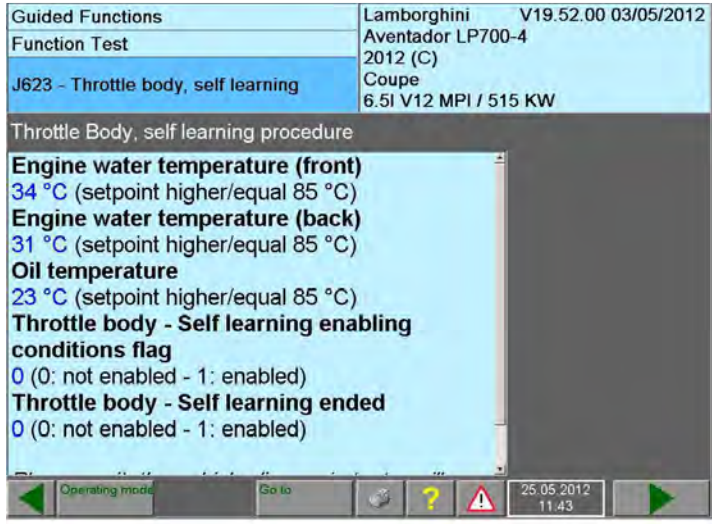
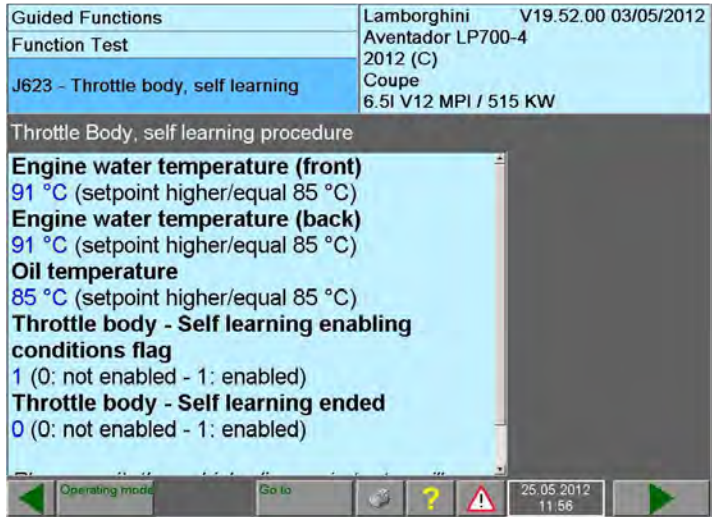
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74	Switch the ignition ON. Click on “Done”	
75	Start the engine at idle. Click on “Done”	

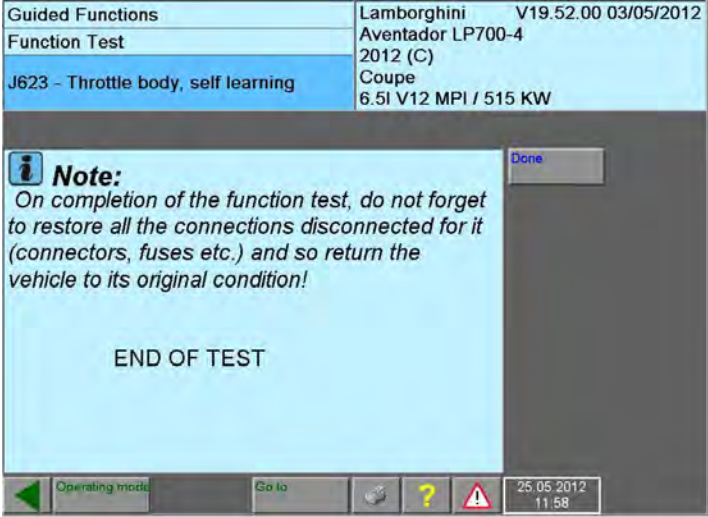
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76	Self learning is an automatic procedure and it is activated when engine water and oil temperature exceed 85 °C. Check the parameters from VAS-PC and wait until temperatures reach the target Don't perform any action on the car (e.g. pushing the accelerator pedal) if not necessary.	
77	Once temperatures reach the activation conditions the “Throttle body – Self learning condition flag” changes from 0 to 1 indicating the start of the self learning procedure.	

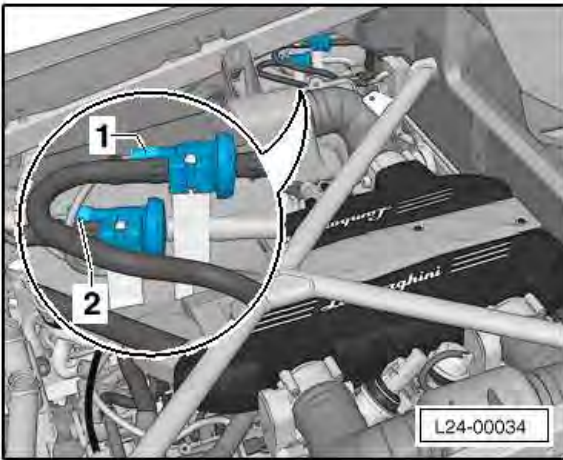
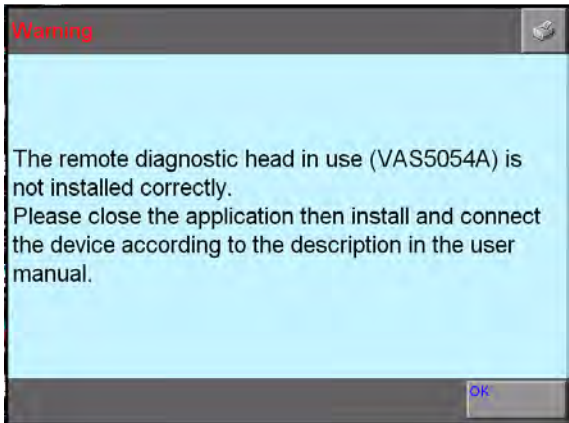
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78	If the self learning is completed successfully a screen as in the picture beside is shown. Click on “Done”. If in 10 minutes from the activation the procedure has not been completed, interrupt and check if: • air conditioning is OFF • DTC memory of Engine ECU is empty Switch the ignition OFF for at least 1 minute and repeat the program.	
79	Click on “Done” in order to end the program.	

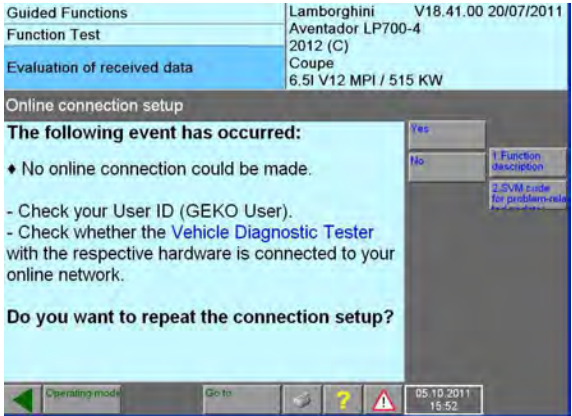
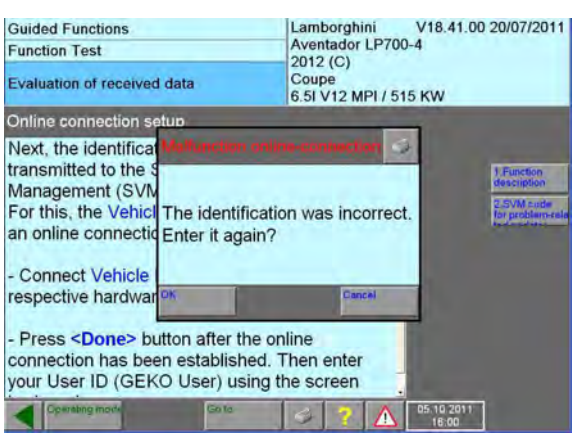
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Troubleshooting

A.	If, after the software programming, the following fault codes are stored into the DTC memory of the Engine ECU: 01089 P0441 000 EVAP Emission Contr.Sys. Incorrect Purge Flow Sporadic 05268 P1494 000 EVAP Emission Contr.Sys. 2 Incorrect Purge Flow Sporadic it is possible that purge electrovalve's connectors are swapped. Connect the connector with the white label at the purge electrovalve for bank right (n.1 in the picture beside) and the connector with the yellow label at the purge electrovalve for bank left (n.2 in the picture beside). Erase the DTC memory of the Engine ECU and perform again the Self-learning procedure starting from step 72	
B.	If the error message regarding the VAS5054 interface is shown as in the picture beside: - close the VAS-PC and repeat the VAS5054 installation as described in the chapter 10.92.00	

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C.	If the connection error screen is shown as in the picture beside: - it is not possible to establish a connection with the central server. Please check carefully that the diagnosis laptop is properly connected to the internet network	
D.	If the incorrect identification message is shown as in the picture beside - be sure that your Geko account is valid - be sure that the label “Geko” is written on the token that you are using for the authentication - click on Cancel and perform the application test as described in the chapter 10.92.00	

Your Area Manager is at full disposal for further information.

Best regards

Customer Service

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